



US 20170185160A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2017/0185160 A1**
(43) **Pub. Date: Jun. 29, 2017**(54) **ELECTRONIC DEVICE AND METHOD OF CONTROLLING THE SAME**(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)(72) Inventors: **Yong-jin CHO**, Seongnam-si (KR);
Sung-yeon LEE, Yongin-si (KR);
Ki-hwan KIM, Seongnam-si (KR);
Jong-yoon KIM, Seoul (KR); **Moon-ki YEO**, Seoul (KR); **Dae-kyu LEE**, Seoul (KR)(73) Assignee: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)(21) Appl. No.: **15/390,229**(22) Filed: **Dec. 23, 2016****Related U.S. Application Data**

(60) Provisional application No. 62/387,184, filed on Dec. 24, 2015.

(30) **Foreign Application Priority Data**

May 4, 2016 (KR) 10-2016-0055768

Nov. 7, 2016 (KR) 10-2016-0147636

Publication Classification(51) **Int. Cl.****G06F 3/01** (2006.01)**G06F 3/0346** (2006.01)(52) **U.S. Cl.**CPC **G06F 3/017** (2013.01); **G06F 3/011** (2013.01); **G06F 3/016** (2013.01); **G06F 3/0346** (2013.01)(57) **ABSTRACT**

The disclosure relates to a method of controlling an electronic device, the method includes, based on a magnetic field generated by a source, obtaining a coordinate of a user's hand; and reflecting the obtained coordinate of the user's hand in a virtual reality environment based on a change of a location of the source due to a movement of the user.

